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TECH CENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/236,995DDATE: 10/29/2001
TIME: 14:44:35Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\10292001\I236995D.raw

4 <110> APPLICANT: Mahajan, Pramod
 5 Zuo, Zhuang
 7 <120> TITLE OF INVENTION: Poly ADP-Ribose Polymerase Gene and its
 8 Uses
 10 <130> FILE REFERENCE: 5718-34
 12 <140> CURRENT APPLICATION NUMBER: US 09/236,995D
 13 <141> CURRENT FILING DATE: 1999-01-26
 15 <150> PRIOR APPLICATION NUMBER: US 60/072,785
 16 <151> PRIOR FILING DATE: 1998-01-27
 18 <160> NUMBER OF SEQ ID NOS: 5
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 2949
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Zea mays
 27 <220> FEATURE:
 28 <221> NAME/KEY: CDS
 29 <222> LOCATION: (1)...(2949)
 31 <221> NAME/KEY: misc feature
 32 <222> LOCATION: (1584) (1588) (2078) 2107
 33 <223> OTHER INFORMATION: n = A,T,C or G
 35 <400> SEQUENCE: 1

36 atg	gct	gct	ccg	cca	aag	gct	tgg	aag	gct	gag	tat	gcc	aag	tct	ggg	48
37 Met	Ala	Ala	Pro	Pro	Lys	Ala	Trp	Lys	Ala	Glu	Tyr	Ala	Lys	Ser	Gly	
38 1	5						10					15				96
40 cgg	gcc	tcg	tgc	aag	tca	tgc	cg	tcc	cct	atc	gcc	aag	gac	cag	ctc	
41 Arg	Ala	Ser	Cys	Lys	Ser	Cys	Arg	Ser	Pro	Ile	Ala	Lys	Asp	Gln	Leu	
42 20	25						30									144
44 cgt	ctt	gct	aag	atg	gtt	cag	gct	tca	cag	ttc	gac	ggc	ttc	atg	ccg	
45 Arg	Leu	Gly	Lys	Met	Val	Gln	Ala	Ser	Gln	Phe	Asp	Gly	Phe	Met	Pro	
46 35	40						45									192
48 atg	tgg	aac	cat	gcc	agg	tgc	atc	ttc	agc	aag	aac	cag	ata	aaa		
49 Met	Trp	Asn	His	Ala	Arg	Cys	Ile	Phe	Ser	Lys	Lys	Asn	Gln	Ile	Lys	
50 50	55						60									240
52 tcc	gtt	gac	gat	gtt	gaa	ggg	ata	gat	gca	ctt	aga	tgg	gat	caa		
53 Ser	Val	Asp	Asp	Val	Glu	Gly	Ile	Asp	Ala	Leu	Arg	Trp	Asp	Asp	Gln	
54 65	70						75					80				288
56 gag	aag	ata	cga	aac	tac	gtt	ggg	agt	gcc	tca	gct	ggt	aca	agt	tct	
57 Glu	Lys	Ile	Arg	Asn	Tyr	Val	Gly	Ser	Ala	Ser	Ala	Gly	Thr	Ser	Ser	
58 85	90						95									336
60 aca	gct	gct	cct	gag	aaa	tgt	aca	att	gag	att	gct	cca	tct	gcc		
61 Thr	Ala	Ala	Pro	Pro	Glu	Lys	Cys	Thr	Ile	Glu	Ile	Ala	Pro	Ser	Ala	
62 100	105						110									384
64 cgt	act	tca	tgt	aga	cga	tgc	agt	gaa	aag	att	aca	aaa	gga	tcg	gtc	
65 Arg	Thr	Ser	Cys	Arg	Arg	Cys	Ser	Glu	Lys	Ile	Thr	Lys	Gly	Ser	Val	
66 115	120						125									432
68 cgt	ctt	tca	gct	aag	ctt	gag	agt	gaa	ggt	ccc	aag	ggt	ata	cca	tgg	

ENTERED
P:5DNA Sequence; it is not necessary
that unknown PRTs in coded
regions are listed. Mff

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69	Arg	Leu	Ser	Ala	Lys	Leu	Glu	Ser	Glu	Gly	Pro	Lys	Gly	Ile	Pro	Trp	
70	130				135					140							480
72	tat	cat	gcc	aac	tgt	ttc	ttt	gag	gta	tcc	ccg	tct	gca	act	gtt	gag	
73	Tyr	His	Ala	Asn	Cys	Phe	Phe	Glu	Val	Ser	Pro	Ser	Ala	Thr	Val	Glu	
74	145				150					155						160	528
76	aag	ttc	tca	ggc	tgg	gat	act	ttg	tcc	gat	gag	gat	aag	aga	acc	atg	
77	Lys	Phe	Ser	Gly	Trp	Asp	Thr	Leu	Ser	Asp	Glu	Asp	Lys	Arg	Thr	Met	
78					165				170				175				
80	ctc	gat	ctt	gtt	aaa	aaa	gat	gtt	ggc	aac	aat	gaa	caa	aat	aag	ggt	
81	Leu	Asp	Leu	Val	Lys	Lys	Asp	Val	Gly	Asn	Asn	Glu	Gln	Asn	Lys	Gly	
82		180				185				190							576
84	tcc	aag	cgc	aag	aaa	agt	gaa	aat	gat	att	gat	agc	tac	aaa	tcc	gcc	
85	Ser	Lys	Arg	Lys	Lys	Ser	Glu	Asn	Asp	Ile	Asp	Ser	Tyr	Lys	Ser	Ala	
86		195				200				205							624
88	agg	tta	gat	gaa	agt	aca	tct	gaa	ggt	aca	gtg	cga	aac	aaa	ggg	caa	
89	Arg	Leu	Asp	Glu	Ser	Thr	Ser	Glu	Gly	Thr	Val	Arg	Asn	Lys	Gly	Gln	
90		210				215				220							
92	ctt	gta	gac	cca	cgt	ggt	tcc	aat	act	agt	tca	gct	gat	atc	caa	cta	
93	Leu	Val	Asp	Pro	Arg	Gly	Ser	Asn	Thr	Ser	Ser	Ala	Asp	Ile	Gln	Leu	
94	225				230				235				240				
96	aag	ctt	aag	gag	caa	agt	gac	aca	ctt	tgg	aag	tta	aag	gat	gga	ctt	
97	Lys	Leu	Lys	Glu	Gln	Ser	Asp	Thr	Leu	Trp	Lys	Leu	Lys	Asp	Gly	Leu	
98		245				250				255							768
100	aag	act	cat	gta	tcg	gct	gct	gaa	tta	agg	gat	atg	ctt	gag	gct	aat	
101	Lys	Thr	His	Val	Ser	Ala	Ala	Glu	Leu	Arg	Asp	Met	Leu	Glu	Ala	Asn	
102		260				265				270							
104	ggg	cag	gat	aca	tca	gga	cca	gaa	agg	cac	cta	ttg	gat	cgc	tgt	gcg	
105	Gly	Gln	Asp	Thr	Ser	Gly	Pro	Glu	Arg	His	Leu	Leu	Asp	Arg	Cys	Ala	
106		275				280				285							864
108	gat	gga	atg	cta	ttt	gga	gcg	ctg	ggt	cct	tgc	cca	gtc	tgt	gct	aat	
109	Asp	Gly	Met	Leu	Phe	Gly	Ala	Leu	Gly	Pro	Cys	Pro	Val	Cys	Ala	Asn	
110		290				295				300							
112	ggc	atg	tac	tat	tat	aat	ggt	cag	tac	caa	tgc	agt	ggt	aat	gtg	tca	
113	Gly	Met	Tyr	Tyr	Tyr	Asn	Gly	Gln	Tyr	Gln	Cys	Ser	Gly	Asn	Val	Ser	
114	305				310				315				320				
116	gag	tgg	tcc	aag	tgt	aca	tac	tct	gcc	aca	gaa	cct	gtc	cgc	gtt	aag	
117	Glu	Trp	Ser	Lys	Cys	Thr	Tyr	Ser	Ala	Thr	Glu	Pro	Val	Arg	Val	Lys	
118		325				330				335							1008
120	aag	aag	tgg	caa	att	cca	cat	gga	aca	aag	aat	gat	tac	ctt	atg	aag	
121	Lys	Lys	Trp	Gln	Ile	Pro	His	Gly	Thr	Lys	Asn	Asp	Tyr	Leu	Met	Lys	
122		340				345				350							1056
124	tgg	ttc	aaa	tct	caa	aag	aaa	cca	gag	agg	gtt	ctt	cca	cca			1104
125	Trp	Phe	Lys	Ser	Gln	Lys	Val	Lys	Lys	Pro	Glu	Arg	Val	Leu	Pro	Pro	
126		355				360				365							1152
128	atg	tca	cct	gag	aaa	tct	gga	agt	aaa	gca	act	cag	aga	aca	tca	ttg	
129	Met	Ser	Pro	Glu	Lys	Ser	Gly	Ser	Lys	Ala	Thr	Gln	Arg	Thr	Ser	Leu	
130		370				375				380							1200
132	ctg	tct	tct	aaa	ggg	ttg	gat	aaa	tta	agg	ttt	tct	gtt	gta	gga	caa	
133	Leu	Ser	Ser	Lys	Gly	Leu	Asp	Lys	Leu	Arg	Phe	Ser	Val	Val	Gly	Gln	

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134	385	390	395	400	400													
136	tca	aaa	gaa	gca	gca													
137	Ser	Lys	Glu	Ala	Ala													
138	405	410	410	415	415													
140	gcc	aac	ttc	tat	gcc	agg	gtt	gtc	aaa	gat	att	gat	tgt	tta	att	gca	1248	
141	Ala	Asn	Phe	Tyr	Ala	Arg	Val	Val	Lys	Asp	Ile	Asp	Cys	Leu	Ile	Ala	1296	
142	420	425	425	430	430	430	435	440	440	445	445	445	450	460	460	1344		
144	tgt	ggg	ctc	gac	aat	gaa	att	gct	gaa	gtc	agg	aaa	gca	agg	agg	1392		
145	Cys	Gly	Glu	Leu	Asp	Asn	Glu	Asn	Ala	Glu	Val	Arg	Lys	Ala	Arg	Arg	1440	
146	435	440	440	445	445	445	450	455	455	460	460	460	465	470	475	480	1488	
148	ctg	aag	ata	cca	att	gta	agg	gag	ggg	tac	att	gga	gaa	tgt	gtt	aaa	1536	
149	Leu	Lys	Ile	Pro	Ile	Val	Arg	Glu	Gly	Tyr	Ile	Gly	Glu	Cys	Val	Lys	1536	
150	450	455	455	460	460	460	465	470	470	475	475	475	480	485	490	495	1584	
152	aga	aca	aaa	tgc	tgc	cat	ttg	att	tgt	ata	aac	tgg	aat	gcc	tta	gag	1584	
153	Arg	Thr	Lys	Cys	Cys	His	Leu	Ile	Cys	Ile	Asn	Trp	Asn	Ala	Leu	Glu	1584	
154	465	470	470	475	475	475	480	485	485	490	490	490	495	495	495	495	1584	
W-->	157	Ser	Ser	Lys	Gly	Xaa	Thr	Val	Thr	Val	Lys	Val	Lys	Gly	Arg	Ser	Ala	1584
158	485	490	490	495	495	495	495	495	495	495	495	495	495	495	495	495	1584	
W-->	161	Cys	Ser	Xaa	Ser	Pro	Xaa	Val	Cys	Lys	Asn	Thr	Ala	His	Ile	Pro	Xaa	1584
162	500	505	505	510	510	510	510	515	515	520	520	525	525	530	535	540	1584	
W-->	164	gra	tgg	gaa	aag	cat	ata	caa	tgc	amc	ctt	aaa	cat	gtt	ctg	acc	tgn	1584
W-->	165	Xaa	Trp	Glu	Lys	His	Ile	Gln	Cys	Xaa	Leu	Lys	His	Val	Leu	Thr	Xaa	1584
166	515	520	520	525	525	525	525	530	530	535	535	540	540	545	550	555	1584	
W-->	168	cac	mag	gtg	tgy	aca	ggc	tac	tat	gta	ctc	cag	atc	att	gaa	cag	gat	1584
W-->	169	His	Xaa	Val	Cys	Thr	Gly	Tyr	Tyr	Val	Leu	Gln	Ile	Ile	Glu	Gln	Asp	1584
170	530	535	535	540	540	540	540	545	545	550	550	555	555	560	560	560	1584	
172	gat	ggg	tct	gag	tgc	tac	gta	ttt	cgt	aag	tgg	gga	cgg	gtt	ggg	agt	1584	
173	Asp	Gly	Ser	Glu	Cys	Tyr	Val	Phe	Arg	Lys	Trp	Gly	Arg	Val	Gly	Ser	1584	
174	545	550	550	555	555	555	555	560	560	565	565	570	570	575	575	575	1584	
176	gag	aaa	att	gga	ggg	caa	aaa	ctg	gag	gag	atg	tca	aaa	act	gag	gca	1584	
177	Glu	Lys	Ile	Gly	Gly	Gln	Lys	Leu	Glu	Glu	Met	Ser	Lys	Thr	Glu	Ala	1584	
178	565	570	570	575	575	575	575	580	580	585	585	590	590	595	595	595	1584	
180	atc	aag	gaa	ttc	aaa	aga	tta	ttt	ctt	gag	aag	act	gga	aac	tca	tgg	1584	
181	Ile	Lys	Glu	Phe	Lys	Arg	Leu	Phe	Leu	Glu	Lys	Thr	Gly	Asn	Ser	Trp	1584	
182	580	585	585	590	590	590	590	595	595	600	600	605	605	610	610	610	1584	
184	gaa	gct	tgg	gaa	tgt	aaa	acc	aat	ttt	cggt	aag	cag	cct	ggg	aga	ttt	1584	
185	Glu	Ala	Trp	Glu	Cys	Lys	Thr	Asn	Phe	Arg	Lys	Gln	Pro	Gly	Arg	Phe	1584	
186	595	600	600	605	605	605	605	610	610	615	615	620	620	625	625	625	1584	
188	tac	cca	ctt	gtt	gtt	gtt	gtt	gtt	gtt	aag	aaa	gca	cca	aaa	cgg	aaa	1584	
189	Tyr	Pro	Leu	Asp	Val	Asp	Tyr	Gly	Val	Lys	Lys	Ala	Pro	Lys	Arg	Lys	1584	
190	610	615	615	620	620	620	620	625	625	630	630	635	635	640	640	640	1584	
192	gat	atc	agt	gaa	atg	aaa	agt	tct	ctt	gct	cct	caa	ttg	ctg	aaa	ctc	1584	
193	Asp	Ile	Ser	Glu	Met	Lys	Ser	Ser	Leu	Ala	Pro	Gln	Leu	Leu	Glu	Leu	1584	
194	625	630	630	635	635	635	635	640	640	645	645	650	650	655	655	655	1584	
196	atg	aag	atg	ctt	tcc	aat	gtg	gag	aca	tat	aga	gct	gct	atg	atg	gaa	1584	
197	Met	Lys	Met	Leu	Phe	Asn	Val	Glu	Thr	Tyr	Arg	Ala	Ala	Met	Met	Glu	1584	
198	645	645	645	650	650	650	650	655	655	660	660	665	665	670	670	670	1584	

These Xaa's
are not listed
as individual
locations nor are
they separated
from the rest of
the sequence.

OR.
DNA

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

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DATE: 10/29/2001
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Input Set : A:\Seqlist.txt
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200 ttt gaa awt aat atg tca gaa atg cct ctt ggg aag cta agc mag gra 2016
W--> 201 Phe Glu Xaa Asn Met Ser Glu Met Pro Leu Gly Lys Leu Ser Xaa Xaa *not worked*
202 660 665 670
204 aat att gag raa gga ttt gaa gca tta act krg rta cmg rat tta ttt 2064
W--> 205 Asn Ile Glu Xaa Gly Phe Glu Ala Leu Thr Xaa Xaa Xaa Xaa Leu Phe
206 675 680 685 700 2107
W--> 208 gaa gga cac cgc tna tca agc act ggc ttg ttr gag aaa gct naa ttg 2112
W--> 209 Glu Gly His Arg Xaa Ser Ser Thr Gly Leu Xaa Glu Lys Ala Xaa Leu
210 690 695 700 *not worked*
212 ttg ytg sga gcm ats syt ttt tca ctc tta tcc ctt cta ttc atc ctc 2160
W--> 213 Leu Xaa Xaa Xaa Xaa Phe Ser Leu Leu Ser Leu Leu Phe Ile Leu
214 705 710 715 720
216 ata tta tac ggg atg agg atg att tca tat tca aag gcg aaa atg ctt 2208
217 Ile Leu Tyr Gly Met Arg Met Ile Ser Tyr Ser Lys Ala Lys Met Leu
218 725 730 735
220 gaa gct ctg cag gat att gaa att gct tca aag ata gtt ggc ttc gat 2256
221 Glu Ala Leu Gln Asp Ile Glu Ile Ala Ser Lys Ile Val Gly Phe Asp
222 740 745 750
224 agc gac agt gat gaa tct ctt gat gat aaa tat atg aaa ctt cac tgt 2304
225 Ser Asp Ser Asp Glu Ser Leu Asp Asp Lys Tyr Met Lys Leu His Cys
226 755 760 765
228 gac atc acc ccg ctg gct cac gat agt gaa gat tac aag tta att gag 2352
229 Asp Ile Thr Pro Leu Ala His Asp Ser Glu Asp Tyr Lys Leu Ile Glu
230 770 775 780
232 cag tat ctc ctc aac aca cat gct cct act cac aag gac tgg tcg ctg 2400
233 Gln Tyr Leu Leu Asn Thr His Ala Pro Thr His Lys Asp Trp Ser Leu
234 785 790 795 800
236 gaa ctg gag gaa gtt ttt tca ctt gat cga gat gga gaa ctt aat aag 2448
237 Glu Leu Glu Glu Val Phe Ser Leu Asp Arg Asp Gly Glu Leu Asn Lys
238 805 810 815
240 tac tca aga tat aaa aat aat ctg cat aac aag atg cta tta tgg cac 2496
241 Tyr Ser Arg Tyr Lys Asn Asn Leu His Asn Lys Met Leu Trp His
242 820 825 830
244 ggt tca agg ttg acg aat ttt gtg gga att ctt agt caa ggg cta aga 2544
245 Gly Ser Arg Leu Thr Asn Phe Val Gly Ile Leu Ser Gln Gly Leu Arg
246 835 840 845
248 att gca cct cct gag gca cct gtt act ggc tat atg ttc ggc aaa ggc 2592
249 Ile Ala Pro Pro Glu Ala Pro Val Thr Gly Tyr Met Phe Gly Lys Gly
250 850 855 860
252 ctc tac ttt gca gat cta gta agc aag agc gca caa tac tgt tat gtg 2640
253 Leu Tyr Phe Ala Asp Leu Val Ser Lys Ser Ala Gln Tyr Cys Tyr Val
254 865 870 875 880
256 gat agg aat aat cct gta ggt ttg atg ctt ctt tct gag gtt gct tta 2688
257 Asp Arg Asn Asn Pro Val Gly Leu Met Leu Leu Ser Glu Val Ala Leu
258 885 890 895
260 gga gac atg tat gaa cta aag aaa gcc acg tcc atg gac aaa cct cca 2736
261 Gly Asp Met Tyr Glu Leu Lys Lys Ala Thr Ser Met Asp Lys Pro Pro
262 900 905 910
264 aga ggg aag cat tcg acc aag gga tta ggc aaa acc gtg cca ctg gag 2784

RAW SEQUENCE LISTING
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265 Arg Gly Lys His Ser Thr Lys Gly Leu Gly Lys Thr Val Pro Leu Glu
266 915 920 925 2832
268 tca gag ttt gtg aag tgg agg gat gat gtc gta gtt ccc tgc ggc aag
269 Ser Glu Phe Val Lys Trp Arg Asp Asp Val Val Val Pro Cys Gly Lys
270 930 935 940 2880
272 ccg gtg cca tca tca att agg agc tct gaa ctc atg tac aat gag tac
273 Pro Val Pro Ser Ser Ile Arg Ser Ser Glu Leu Met Tyr Asn Glu Tyr
274 945 950 955 960 2928
276 atc gtc tac aac aca tcc cag gtg aag atg cag ttc ttg ctg aag gtg
277 Ile Val Tyr Asn Thr Ser Gln Val Lys Met Gln Phe Leu Leu Lys Val
278 965 970 975 2949
280 cgt ttc cat cac aag agg tag
281 Arg Phe His His Lys Arg *
282 980
285 <210> SEQ ID NO: 2
286 <211> LENGTH: 982
287 <212> TYPE: PRT
288 <213> ORGANISM: Zea mays
289 <220> FEATURE:
290 <221> NAME/KEY: VARIANT
291 <222> LOCATION: 485, 499, 502, 512, 513, 521, 528, 530, 659, 671, 672, 676,
292 683, 684, 685, 686, 693, 699, 703, 706, 707, 708, 709, 710
293 <223> OTHER INFORMATION: Xaa = Any Amino Acid
294 <400> SEQUENCE: 2
295 Met Ala Ala Pro Pro Lys Ala Trp Lys Ala Glu Tyr Ala Lys Ser Gly
296 1 5 10 15
297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321
298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321
Met Ala Ser Cys Lys Ser Cys Arg Ser Pro Ile Ala Lys Asp Gln Leu
Arg Ala Ser Cys Lys Ser Cys Arg Ser Pro Ile Ala Lys Asp Gln Leu
20 25 30
Leu Gly Lys Met Val Gln Ala Ser Gln Phe Asp Gly Phe Met Pro
35 40 45
Trp Asn His Ala Arg Cys Ile Phe Ser Lys Lys Asn Gln Ile Lys
50 55 60
Ser Val Asp Asp Val Glu Gly Ile Asp Ala Leu Arg Trp Asp Asp Gln
65 70 75 80
Glu Lys Ile Arg Asn Tyr Val Gly Ser Ala Ser Ala Gly Thr Ser Ser
85 90 95
Thr Ala Ala Pro Pro Glu Lys Cys Thr Ile Glu Ile Ala Pro Ser Ala
100 105 110
Arg Thr Ser Cys Arg Arg Cys Ser Glu Lys Ile Thr Lys Gly Ser Val
115 120 125
Leu Ser Ala Lys Leu Glu Ser Glu Gly Pro Lys Gly Ile Pro Trp
130 135 140
Tyr His Ala Asn Cys Phe Phe Glu Val Ser Pro Ser Ala Thr Val Glu
145 150 155 160
Lys Phe Ser Gly Trp Asp Thr Leu Ser Asp Glu Asp Lys Arg Thr Met
165 170 175
Leu Asp Leu Val Lys Lys Asp Val Gly Asn Asn Glu Gln Asn Lys Gly
180 185 190
Ser Lys Arg Lys Lys Ser Glu Asn Asp Ile Asp Ser Tyr Lys Ser Ala

Use of n and / or Xaa has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <220> to <223> fields of each sequence
using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/236,995D

DATE: 10/29/2001
TIME: 14:44:36

Input Set : A:\Seqlist.txt
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L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2